

Table 17. Cotton insect loss estimates for New Mexico during 2019.

Pest	Acres Infested	% Acres Infested	Acres Treated	% Acres Treated	# of apps /acres treated	Cost of 1 application	% loss /acre infested	# of apps/ total acres	cost/acre	overall % reduction	Bales lost / pest	Loss + cost	Loss + cost/acre	% Total Loss+Cost
Bollworm/Budworm	5,775	8%	1,444	2.0%	1.0	\$10.78	1.10%	0.02	\$0.22	0.09%	140	\$51,645	\$0.72	3.7%
Beet Armyworm	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Fall Armyworm	2,887	4%	722	1.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Loopers	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cutworms	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cotton Leaf Perforator	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Saltmarsh Caterpillar	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Lygus	22,377	31%	3,609	5.0%	1.0	\$12.42	1.60%	0.05	\$0.62	0.50%	787	\$297,216	\$4.12	21.5%
Cotton Fleahopper	16,602	23%	722	1.0%	1.0	\$10.85	0.80%	0.01	\$0.11	0.18%	292	\$106,921	\$1.48	7.7%
Stink Bugs (other than brown stink bug)	5,053	7%	722	1.0%	1.0	\$9.92	1.70%	0.01	\$0.10	0.12%	189	\$68,541	\$0.95	4.9%
Brown Stink Bug	722	1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Clouded Plant Bug	722	1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Leaf Footed Bugs	722	1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Spider Mites	217	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Thrips	51,251	71%	10,106	14.0%	1.0	\$6.89	2.00%	0.14	\$0.96	1.42%	2,253	\$860,516	\$11.92	62.1%
Aphids	722	1%	144	0.2%	1.0	\$10.57	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Grasshoppers	2,166	3%	217	0.3%	1.0	\$10.72	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Banded Winged Whitefly	1,444	2%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Silverleaf Whitefly	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Boll Weevil	0	0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
<b>TOTAL</b>								0.23	\$2.01	2.31%	3,661	\$1,384,839	\$19.18	

**SUMMARY DATA**

State	Data Input		Yield and Management Results				Economic Results	
	New Mexico		Total Acres			Total	Per Acre	
Region	West		Total Bales Harvested	142,263	Foliar Insecticide Costs	\$145,010	\$2.01	
Year	2019		Total Bales Lost to Insects	3,661	Seed Treatment Costs	\$488,411	\$6.77	
Total Acres (Upland)	72,184	In-furrow cost/treated acre	\$1.96	Percent Yield Loss	2.3%	In-Furrow Costs	\$8,489	\$0.12
Yield / Acre (Upland)	946	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	968	Scouting Costs	\$386,776	\$5.36
Price / lb	\$0.75	Cost/acre Boll Weevil Eradication	\$5.95	Av. # Applications	0.23	Eradication Costs	\$429,495	\$5.95
yield potential (lb/acre)	1,055	% acres in Pink Bollworm Eradication	0%	Total Bales lost (all factors)	18,256	Bt Cotton	\$897,784	\$12.44
Acres (Pima)	6,497	Cost/acre Pink Bollworm Eradication	\$0.00	Total % yield Loss	11.5%	Total Costs	\$2,355,965	\$32.64
Yield / Acre (Pima)	-	% Insect apps by air	24%	Transgenic Cotton (arthropods) (# acres)	58,469	Yield Loss to Insects	\$1,317,960	\$18.26
% Acres Scouted	73%	No. apps by air	1.1	Boll Weevil Eradication (# acres)	72,184	Total Losses + Costs	\$3,673,925	\$50.90
Fee / Scouted Acre	\$7.34	Cost/app by air	\$6.37	Pink Bollworm Eradication (# acres)	0			
No. times scouted/week	1	% insect apps by ground	16%	# Scouted Acres	52,694			
% acres Transgenic (Bt) Cotton	81%	No. apps by ground	1	Seed Treatments (arthropods) (# acres)	45,476			
Cost/treated acre (Bt) Cotton	\$15.35	Cost/app by ground	\$4.69	In-Furrow Applications (# acres)	4,331			
% acres with seed treatment	63%	% Loss to weather	5.0%	Applications by Air (acres)	17,324			
Seed trt. cost/ treated acre	\$10.74	% loss to non-arthropods	2.2%	Applications by Ground (acres)	11,549			
% acres with in-furrow	6%	% loss to other (chemical injury, weeds, diseases, etc.)	2.0%	No. acres with no foliar insecticide applications	38,979			

Table 17. Cotton insect loss estimates for New Mexico during 2019, continued.

Upland Cotton	% Acres	# Acres	Total cost/acre	Bt cost/acre	% acres treated for BW/TBW	# acres treated for BW/TBW	# apps for BW/TBW
Bollgard II	12.0%	8,662	\$40.25	\$14.24	2%	173	1.0
Bollgard III	41.0%	29,595	\$42.10	\$16.22	0%	0	0.0
WideStrike	4.0%	2,887	\$35.03	\$12.11	3%	87	1.0
WideStrike 3	20.0%	14,437	\$37.24	\$14.21	0%	0	0.0
TwinLink	1.0%	722	\$55.22	\$17.51	2%	14	1.0
TwinLink Plus	3.0%	2,166	\$58.31	\$19.23	0%	0	0.0
<b>Total Bt</b>	<b>81.0%</b>	<b>58,469</b>	<b>\$41.04</b>	<b>\$15.35</b>	<b>0.5%</b>	<b>274</b>	<b>0.2</b>
Herbicide Traits Only	12.0%	8,662	\$26.31	-	43%	3,725	1.0
Conventional	6.0%	4,331	\$12.10	-	28%	1,213	1.0
Organic	1.0%	722	\$12.10	-	0%	0	0.0
<b>Total Upland Cotton</b>	<b>100.0%</b>	<b>72,184</b>	<b>\$37.25</b>	<b>\$15.35</b>	<b>7.2%</b>	<b>5,212</b>	<b>0.4</b>
<b>Non Upland Cotton</b>							
Pima	9.0%	6,497	\$38.31	-	2%	130	1.0
Other	0.0%	0	\$0.00	-	0%	0	0.0
Organic	0.0%	0	\$0.00	-	0%	0	0.0
<b>Total (all Cotton)</b>		<b>78,681</b>	<b>\$37.33</b>	<b>-</b>	<b>6.8%</b>	<b>5,342</b>	<b>0.5</b>